

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
19 May 2005 (19.05.2005)

PCT

(10) International Publication Number  
**WO 2005/044898 A1**

(51) International Patent Classification<sup>7</sup>: **C08G 77/02, C04B 28/22, 38/08**

(21) International Application Number:  
**PCT/EP2004/006690**

(22) International Filing Date: 21 June 2004 (21.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
**MI2003A002125 4 November 2003 (04.11.2003) IT**

(71) Applicants (for all designated States except US): **LUCINI, Emilio [IT/IT]; Via Marazzi, 20, I-21047 Saronno (IT). PARO, Maria, Alba [IT/IT]; Via Marazzi, 20, I-21047 Saronno (IT).**

(71) Applicant and

(72) Inventor: **LUCINI, Oscar [IT/IT]; Via Marazzi, 20, I-21047 Saronno (IT).**

(74) Agent: **MODIANO, Guido; Modiano & Associati, Via Meravigli 16, I-20123 Milano (IT).**

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/044898 A1

(54) Title: **BINDING RESIN, PARTICULARLY FOR BUILDING AND TRANSPORTATION, METHOD FOR PREPARING THE SAME, AND ARTICLES OBTAINABLE WITH THE RESIN**

(57) Abstract: A binding resin, particularly for manufacturing articles, the method for its preparation, and articles that can be obtained with the resin. The binding resin is obtained by mixing essentially a first powder that comprises silica and one or more hardening agents with a solution of at least one silicate of an alkaline metal. Some of the possible additional ingredients are a powder that comprises at least one pozzolanic inorganic binding agent, at least one pozzolanic binding agent with high specific surface area, and a solution of at least one waterproofer. The addition of the optional ingredients provides additional advantages. The invention also relates to a method for preparing and using the resin and to the products (or articles) that can be obtained from the resin.